

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 July 2005 (21.07.2005)

PCT

(10) International Publication Number  
**WO 2005/066744 A1**

(51) International Patent Classification<sup>7</sup>: **G06F 3/00**,  
G05B 19/409

Sandvika (NO). PETTERSEN, Thomas [NO/NO]; Bruse-  
berget 3, N-1738 Borgenhaugen (NO).

(21) International Application Number:  
PCT/IB2004/004246

(74) Agent: WARREN, Nick; Legal & Compliance/Intellec-  
tual Property, Forskargränd 8, S-721 78 Västerås (SE).

(22) International Filing Date:  
20 December 2004 (20.12.2004)

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/533,246 31 December 2003 (31.12.2003) US  
0400874-4 31 March 2004 (31.03.2004) SE

(71) Applicant (for all designated States except US): ABB RE-  
SEARCH LTD [CH/CH]; Affolternstrasse 52, CH-8050  
Zürich (CH).

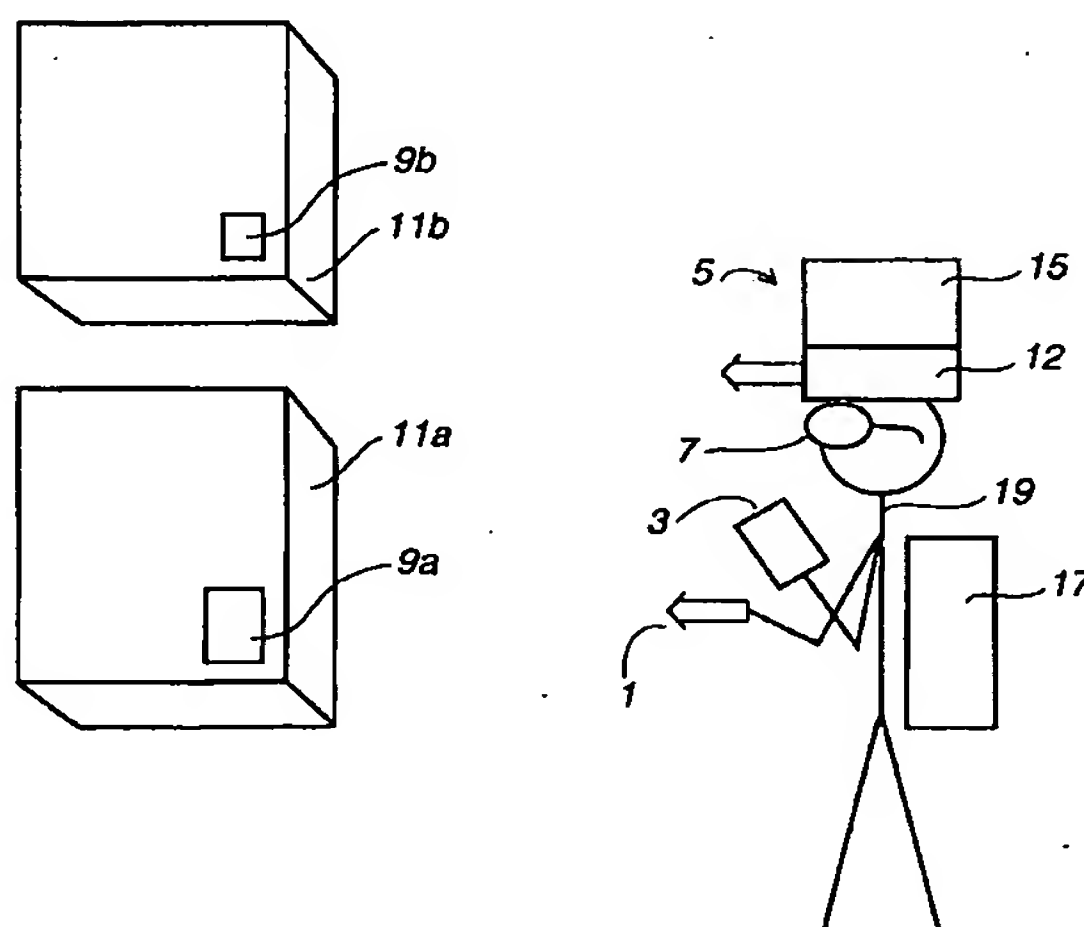
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SKOURUP, Char-  
lotte [DK/NO]; Kirkebakken 11, N-3040 Drammen (NO).  
PRETLOVE, John [GB/NO]; Harreschous vei 12, N-1338

[Continued on next page]

(54) Title: A VIRTUAL CONTROL PANEL



(57) Abstract: A system that enables a user to interact with a virtual control panel using a user controlled pointing object (1). The system comprises a portable identification element (3), a tracking unit (15) adapted to capture data representing the position of the pointing object and the position of the identification element, a storage unit, storing at least one pre-defined graphical interface representing a control panel of a device, a graphics unit, generating a graphical representation of the control panel, a registering unit, registering said graphical representation of the control panel in a fixed relation to said portable identification element to produce a virtual control panel and a display unit (7), showing the user a view comprising the real world and the virtual control panel.

WO 2005/066744 A1



**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*